4164-01-P

DEPARTMENT OF HEALTH AND HUMAN SERVICES

Food and Drug Administration

[Docket No. FDA-2004-N-0451]

Food and Drug Administration Modernization Act of 1997: Modifications to the List of

Recognized Standards, Recognition List Number: 044

AGENCY: Food and Drug Administration, HHS.

ACTION: Notice.

SUMMARY: The Food and Drug Administration (FDA or Agency) is announcing a publication containing modifications the Agency is making to the list of standards FDA recognizes for use in premarket reviews (FDA Recognized Consensus Standards). This publication, entitled Modifications to the List of Recognized Standards, Recognition List Number: 044 (Recognition List Number: 044), will assist manufacturers who elect to declare conformity with consensus standards to meet certain requirements for medical devices.

DATES: Submit electronic or written comments concerning this document at any time. These modifications to the list of recognized standards are effective [INSERT DATE OF]

PUBLICATION IN THE FEDERAL REGISTER].

ADDRESSES: You may submit comments as follows:

Electronic Submissions

Submit electronic comments in the following way:

 Federal eRulemaking Portal: http://www.regulations.gov. Follow the instructions for submitting comments. Comments submitted electronically, including attachments, to http://www.regulations.gov will be posted to the docket unchanged. Because your comment will be made public, you are solely responsible for ensuring that your comment does not include any confidential information that you or a third party may not wish to be posted, such as medical information, your or anyone else's Social Security number, or confidential business information, such as a manufacturing process. Please note that if you include your name, contact information, or other information that identifies you in the body of your comments, that information will be posted on http://www.regulations.gov.

• If you want to submit a comment with confidential information that you do not wish to be made available to the public, submit the comment as a written/paper submission and in the manner detailed (see "Written/Paper Submissions" and "Instructions").

Written/Paper Submissions

Submit written/paper submissions as follows:

- Mail/Hand delivery/Courier (for written/paper submissions): Division of Dockets
 Management (HFA-305), Food and Drug Administration, 5630 Fishers Lane, rm.
 1061, Rockville, MD 20852.
- For written/paper comments submitted to the Division of Dockets Management, FDA will post your comment, as well as any attachments, except for information submitted, marked and identified, as confidential, if submitted as detailed in "Instructions."

<u>Instructions</u>: All submissions received must include the Docket No. FDA-2004-N-0451 for "Food and Drug Administration Modernization Act of 1997: Modifications to the List of Recognized Standards, Recognition List Number: 044." Received comments will be placed in the docket and, except for those submitted as "Confidential Submissions," publicly viewable at

http://www.regulations.gov or at the Division of Dockets Management between 9 a.m. and 4 p.m., Monday through Friday. FDA will consider any comments received in determining whether to amend the current listing of modifications to the list of recognized standards, Recognition List Number: 043.

Confidential Submissions--To submit a comment with confidential information that you do not wish to be made publicly available, submit your comments only as a written/paper submission. You should submit two copies total. One copy will include the information you claim to be confidential with a heading or cover note that states "THIS DOCUMENT CONTAINS CONFIDENTIAL INFORMATION." The Agency will review this copy, including the claimed confidential information, in its consideration of comments. The second copy, which will have the claimed confidential information redacted/blacked out, will be available for public viewing and posted on http://www.regulations.gov. Submit both copies to the Division of Dockets Management. If you do not wish your name and contact information to be made publicly available, you can provide this information on the cover sheet and not in the body of your comments and you must identify this information as "confidential." Any information marked as "confidential" will not be disclosed except in accordance with 21 CFR 10.20 and other applicable disclosure law. For more information about FDA's posting of comments to public dockets, see 80 FR 56469, September 18, 2015, or access the information at: http://www.fda.gov/regulatoryinformation/dockets/default.htm.

<u>Docket</u>: For access to the docket to read background documents or the electronic and written/paper comments received, go to http://www.regulations.gov and insert the docket

number, found in brackets in the heading of this document, into the "Search" box and follow the prompts and/or go to the Division of Dockets Management, 5630 Fishers Lane, rm. 1061, Rockville, MD 20852.

An electronic copy of Recognition List Number: 044 is available on the Internet at http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/ucm123792.htm. See section VI of this document for electronic access to the searchable database for the current list of FDA recognized consensus standards, including Recognition List Number: 044 modifications and other standards related information. Submit written requests for a single hard copy of the document entitled "Modifications to the List of Recognized Standards, Recognition List Number: 044" to Scott A. Colburn, Center for Devices and Radiological Health, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 66, rm. 5514, Silver Spring, MD 20993. Send one self-addressed adhesive label to assist that office in processing your request, or fax your request to 301-847-8149.

FOR FURTHER INFORMATION CONTACT: Scott A. Colburn, Center for Devices and Radiological Health, Food and Drug Administration, 10903 New Hampshire Ave., Bldg. 66, rm. 5514, Silver Spring, MD 20993, 301-796-6287, standards@cdrh.fda.gov.

SUPPLEMENTARY INFORMATION:

I. Background

Section 204 of the Food and Drug Administration Modernization Act of 1997 (FDAMA) (Pub. L. 105-115) amended section 514 of the Federal Food, Drug, and Cosmetic Act (the FD&C Act) (21 U.S.C. 360d). Amended section 514 allows FDA to recognize consensus standards developed by international and national organizations for use in satisfying portions of device premarket review submissions or other requirements.

In a notice published in the <u>Federal Register</u> of February 25, 1998 (63 FR 9561), FDA announced the availability of a guidance entitled "Recognition and Use of Consensus Standards." The notice described how FDA would implement its standard recognition program and provided the initial list of recognized standards.

Modifications to the initial list of recognized standards, as published in the <u>Federal</u> Register, can be accessed at

http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/ucm123792.htm.

These notices describe the addition, withdrawal, and revision of certain standards recognized by FDA. The Agency maintains hypertext markup language (HTML) and portable document format (PDF) versions of the list of FDA Recognized Consensus Standards. Both versions are publicly accessible at the Agency's Internet site. See section VI of this document for electronic access information. Interested persons should review the supplementary information sheet for the standard to understand fully the extent to which FDA recognizes the standard.

II. Modifications to the List of Recognized Standards, Recognition List Number: 044

FDA is announcing the addition, withdrawal, correction, and revision of certain consensus standards the Agency will recognize for use in premarket submissions and other requirements for devices. FDA will incorporate these modifications in the list of FDA Recognized Consensus Standards in the Agency's searchable database. FDA will use the term "Recognition List Number: 044" to identify these current modifications.

In table 1, FDA describes the following modifications: (1) The withdrawal of standards and their replacement by others, if applicable; (2) the correction of errors made by FDA in listing previously recognized standards; and (3) the changes to the supplementary information sheets of recognized standards that describe revisions to the applicability of the standards.

In section III, FDA lists modifications the Agency is making that involve the initial addition of standards not previously recognized by FDA.

Table 1.--Modifications to the List of Recognized Standards

Old	Replacement	Table 1Modifications to the List of Recognized Standards Title of Standard ¹	Change
Recognition	Recognition		_
No.	No.		
		A. Biocompatibility	
2-93		ASTM F763-04 (Reapproved 2010) Standard Practice	Extent of recognition,
		for Short-Term Screening of Implant Materials	Relevant guidance
2-94		ASTM F981-04 (Reapproved 2010) Standard Practice	Extent of recognition,
		for Assessment of Compatibility of Biomaterials for	Relevant guidance
		Surgical Implants with Respect to Effect of Materials on	C
		Muscle and Bone	
2-114		ASTM F1877-05 (Reapproved 2010) Standard Practice	Extent of recognition,
		for Characterization of Particles	Relevant guidance
2-117	2-226	ANSI/AAMI/ISO 10993-3:2014 Biological evaluation of	Withdrawn and replaced
		medical devices Part 3: Tests for genotoxicity,	with newer version
		carcinogenicity, and reproductive toxicity	
2-118		ANSI/AAMI/ISO 10993-11:2006/ (R) 2014 Biological	Reaffirmation, Extent of
		evaluation of medical devices Part 11: Tests for	recognition, Relevant
		systemic toxicity	guidance
2-119		ASTM F813-07 (Reapproved 2012) Standard Practice	Extent of recognition,
		for Direct Contact Cell Culture Evaluation of Materials	Relevant guidance
		for Medical Devices	
2-120		ANSI/AAMI/ISO 10993-6:2007/(R) 2014 Biological	Reaffirmation, Extent of
		evaluation of medical devices Part 6: Tests for local	recognition, Relevant
		effects after implantation	guidance
2-122		ASTM F719-81 (Reapproved 2012) Standard Practice	Extent of recognition,
		for Testing Biomaterials in Rabbits for Primary Skin	Relevant guidance
		Irritation	
2-124		ASTM F750-87 (Reapproved 2012) Standard Practice	Extent of recognition,
		for Evaluating Material Extracts By Systemic Injection	Relevant guidance
		in the Mouse	
2-126		ASTM F748-06 (Reapproved 2010) Standard Practice	Extent of recognition,
		for Selecting Generic Biological Test Methods for	Relevant guidance
		Materials and Devices	
2-133		ASTM F1408-97 (Reapproved 2013) Standard Practice	Extent of recognition,
		for Subcutaneous Screening Test for Implant Materials	Relevant guidance
2-134		ASTM F2065-00 (Reapproved 2010) Standard Practice	Extent of recognition,
		for Testing for Alternative Pathway Complement	Relevant guidance
		Activation in Serum by Solid Materials	
2-136		ASTM E1262-88 (Reapproved 2013) Standard Guide for	Extent of recognition,
		Performance of Chinese Hamster Ovary	Relevant guidance
		Cell/Hypoxanthine Guanine Phosphoribosyl Transferase	
		Gene Mutation Assay	7
2-141		ASTM F1984-99 (Reapproved 2013) Standard Practice	Extent of recognition,
		for Testing for Whole Complement Activation in Serum	Relevant guidance
		by Solid Materials	
2-142	2-227	ASTM F1983-14 Standard Practice for Assessment of	Withdrawn and replaced
		Selected Tissue Effects of Absorbable Biomaterials for	with newer version
		Implant Applications	

Table 1.--Modifications to the List of Recognized Standards

Old	Replacement	Title of Standard ¹	Change
Recognition No.	Recognition No.	Title of Standard	Change
2-145		ASTM F1439-03 (Reapproved 2013) Standard Guide for Performance of Lifetime Bioassay for the Tumorigenic Potential of Implant Materials	Extent of recognition, Relevant guidance
2-153		ANSI/AAMI/ISO 10993-5:2009/(R) 2014 Biological evaluation of medical devices Part 5: Tests for in vitro	Extent of recognition, Relevant guidance
2-155		cytotoxicity ASTM F2147-01 (Reapproved 2010) Standard Practice for Guinea Pig: Split Adjuvant and Closed Patch Testing for Contact Allergens	Extent of recognition, Relevant guidance
2-156		ANSI/AAMI 10993-1:2009/(R) 2013 Biological evaluation of medical devices Part 1: Evaluation and testing within a risk management process [Including: Technical Corrigendum 1 (2010)]	Extent of recognition, Relevant guidance
2-162		ASTM F1903-10 Standard Practice for Testing For Biological Responses to Particles In Vitro	Extent of recognition, Relevant guidance
2-163		ANSI/AAMI/ISO 10993-9: 2009/(R) 2014 Biological evaluation of medical devices Part 9: Framework for identification and quantification of potential degradation products	Reaffirmation, Extent of recognition, Relevant guidance
2-165		ANSI/AMMI/ISO 10993-14:2001/(R) 2011, Biological evaluation of medical devices Part 14: Identification and quantification of degradation products form ceramics	Relevant guidance
2-167		ISO TS 10993-19 First edition 2006-06-01 Biological evaluation of medical devices Part 19: Physiochemical, morphological and topographical characterization of materials	Extent of recognition, Relevant guidance
2-168		ISO 10993-9 Second edition 2009-12-15 Biological evaluation of medical devices Part 9: Framework for identification and quantification of potential degradation products	Extent of recognition, Relevant guidance
2-169		ISO 10993-13 Second edition 2010-06-15, Biological evaluation of medical devices Part 13: Identification and quantification of degradation products from polymeric medical devices	Extent of recognition, Relevant guidance
2-170		ISO 10993-14 First edition 2001-11-15, Biological evaluation of medical devices Part 14: Identification and quantification of degradation products from ceramics	Relevant guidance
2-171		ISO 10993-16 Second edition 2010-02-15, Biological evaluation of medical devices Part 16: Toxicokinetic study design for degradation products and leachables	Relevant guidance
2-172		ANSI/AAMI/ISO TIR 10993-19:2006 Biological evaluation of medical devices Part 19: Physicochemical, morphological, and topographical characterization of materials	Extent of recognition, Relevant guidance
2-173		ANSI/AAMI/ISO 10993-10:2010/(R) 2014 Biological evaluation of medical devices Part 10: Tests for irritation and skin sensitization	Reaffirmation, Extent of recognition, Relevant guidance
2-174		ISO 10993-10 Third Edition 2010-08-01 Biological evaluation of medical devices Part 10: Tests for irritation and skin sensitization	Extent of recognition, Relevant guidance

Table 1.--Modifications to the List of Recognized Standards

		Table 1Wodifications to the List of Recognized Standards	
Old Recognition No.	Replacement Recognition No.	Title of Standard ¹	Change
2-175	2-228	ISO 10993-3:2014 Third edition 2014-10-1 Biological evaluation of medical devices Part 3: Tests for	Withdrawn and replaced with newer version
		genotoxicity, carcinogenicity, and reproductive toxicity	
2-176		ISO 10993-11 Second edition 2006-08-15 Biological	Extent of recognition,
		evaluation of medical devices Part 11: Tests for systemic toxicity	Relevant guidance
2-177		ISO 10993-06 Second edition 2007-04-15 Biological	Extent of recognition,
2 177		evaluation of medical devices Part 6: Tests for local	Relevant guidance
		effects after implantation	Tele vant gardance
2-180		ANSI/AAMI/ISO 10993-16:2010/(R) 2014, Biological	Relevant guidance
_ 100		evaluation of medical devices Part 16: Toxicokinetic	Tiolo valle galaanee
		study design for degradation products and leachables	
		from medical devices	
2-189		ASTM F895-11 Standard Test Method for Agar	Extent of recognition,
		Diffusion Cell Culture Screening for Cytotoxicity	Relevant guidance
2-190		ANSI/AAMI/ISO 10993-13:2010/(R) 2014 Biological	Reaffirmation, Extent of
		evaluation of medical devices Part 13: Identification	recognition, Relevant
		and quantification of degradation products from	guidance
		polymeric medical devices	
2-191		ISO 10993-12 Fourth edition 2012-07-01 Biological	Extent of recognition,
		evaluation of medical devices Part 12: Sample	Relevant guidance
		preparation and reference materials	
2-197		ASTM F749-13 Standard Practice for Evaluating	Extent of recognition,
		Material Extracts by Intracutaneous Injection in the	Relevant guidance
		Rabbit	
2-198		ANSI/AAMI/ISO 10993-12:2012 Biological evaluation	Extent of recognition,
		of medical devices Part 12: Sample preparation and	Relevant guidance
		reference materials	
2-204		ASTM F720-13 Standard Practice for Testing Guinea	Extent of recognition,
		Pigs for Contact Allergens: Guinea Pig Maximization	Relevant guidance
2.206		Test	T
2-206		ASTM F2148-13 Standard Practice for Evaluation of	Extent of recognition,
		Delayed Contact Hypersensitivity Using the Murine	Relevant guidance
207		Local Lymph Node Assay (LLNA) ASTM F756-13 Standard Practice for Assessment of	F-+
2-207		Hemolytic Properties of Materials	Extent of recognition, Relevant guidance
2-213		ASTM F1904-14 Standard Practice for Testing the	Extent of recognition,
2-213		Biological Responses to Particles In Vivo	Relevant guidance
2-214		ASTM F619-14 Standard Practice for Extraction of	Extent of recognition,
2-214		Medical Plastics	Relevant guidance
2-215	2-229	USP 39-NF34:2016 <87> Biological Reactivity test, In	Withdrawn and replaced
213	2 22)	Vitro Direct Contact Test	with a newer version
2-216	2-230	USP 39-NF34:2016 <87> Biological Reactivity Test, In	Withdrawn and replaced
2 210	2 230	Vitro Elution Test	with a newer version
2-217	2-231	USP 39-NF34: 2016 <88> Biological Reactivity Tests, In	Change in title,
<i>∠</i> -∠1 /		Vivo	Withdrawn and replaced
			with a newer version
2-218		USP 39-NF34: 2016 <88> Biological Reactivity Tests In	Withdrawn; See 2-231
2 210		Vivo, Classification of Plastics Intracutaneous Test	, ~
2-219		USP 39-NF34: 2016 <88> Biological Reactivity Tests In	Withdrawn; See 2-231
= =->			

Table 1.--Modifications to the List of Recognized Standards

Old	Replacement	Title of Standard ¹	Change
Recognition	Recognition		
No.	No.		
2-220		ISO 10993-1 Fourth edition 2009-10-15 Biological	Extent of recognition,
		evaluation of medical devices Part 1: Evaluation and	Relevant guidance
		testing within a risk management process [Including:	
		Technical Corrigendum 1 (2010)]	
2-221		ANSI/AAMI/ISO 10993-2:2006/(R) 2014 Biological	Extent of recognition,
		evaluation of medical devices Part 2: Animal welfare	Relevant guidance
		requirements	
2-222		ISO 10993-2 Second edition 2006-07-15 Biological	Extent of recognition,
		evaluation of medical devices Part 2: Animal welfare	Relevant guidance
		requirements	_
2-223		ASTM F2901-13, Standard guide for selecting tests to	Relevant guidance
		evaluate potential neurotoxicity of medical devices	
2-225		ASTM F2567-06 (Reapproved 2010), Standard practice	Relevant guidance
2-223		for testing for classical complement activation in serum	Relevant guidance
		1	
		by solid materials	
B. Sterility			
14-477	2-232	USP 39-NF34:2016 <151> Pyrogen Test	Transferred to
			Biocompatibility;
			Relevant guidance

All standard titles in this table conform to the style requirements of the respective organizations.

III. Listing of New Entries

In table 2, FDA provides the listing of new entries and consensus standards added as modifications to the list of recognized standards under Recognition List Number: 044.

Table 2.--New Entries to the List of Recognized Standards

Recognition	Title of Standard ¹	Reference No. and Date		
No.				
	A. Biocompatibility			
2-233	Standard Test Method for Assessment of Intravascular Medical	F2382-04 (Reapproved 2010)		
	Device Materials on Partial Thromboplastin Time (PTT)			
2-234	Biological Evaluation of Medical Devices Part 4: Selection of	ANSI/AAMI/ISO 10993-		
	tests for interaction with blood [Including Amendment 1(2006)]	4:2002/(R)2013 &		
		A1:2006/(R)2013		
2-235	Biological Evaluation of Medical Devices Part 4: Selection of	ISO 10994-4 Second edition		
	tests for interaction with blood [Including Amendment 1(2006)]	2002-10-15 Amendment 1		
		2006-07-15		
2-236	Biological evaluation of medical devices Part 17:	ANSI/AAMI/ISO 10993-		
	Establishment of allowable limits for leachable substances	17:2002/(R)2012		
2-237	Biological evaluation of medical devices Part 17:	ISO 10993-17 First edition		
	Establishment of allowable limits for leachable substances	2002-12-01		
2-238	Biological evaluation of medical devices Part 18: Chemical	ANSI/AAMI BE 83:		
	characterization of materials	2006/(R)2011		
2-239	Biological evaluation of medical devices Part 20: Principles	ANSI/AAMI/ISO TIR 10993-		
	and methods for immunotoxicology testing of medical devices	20:2006		
2-240	Biological evaluation of medical devices Part 20: Principles	ISO/TS 10993-20 First edition		
	and methods for immunotoxicology testing of medical devices	2006-08-01		

Table 2.--New Entries to the List of Recognized Standards

Recognition	Title of Standard ¹	Reference No. and Date
No.		
2-241	Cardiovascular biological evaluation of medical devices	ISO/TR 37137 First edition
	Guidance for absorbable implants	2014-05-15
2-242	Cardiovascular biological evaluation of medical devices	ANSI/AAMI/ISO TR 37137:
	Guidance for absorbable implants	2014
2-243	Biological evaluation of medical devices Part 33: Guidance	ISO/TR 10993-33:2015 First
	on tests to evaluate genotoxicity	edition 2015-03-01

¹ All standard titles in this table conform to the style requirements of the respective organizations.

IV. List of Recognized Standards

FDA maintains the Agency's current list of FDA Recognized Consensus Standards in a searchable database that may be accessed directly at FDA's Internet site at http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfStandards/search.cfm. FDA will incorporate the modifications and revisions described in this notice into the database and, upon publication in the Federal Register, this recognition of consensus standards will be effective. FDA will announce additional modifications and revisions to the list of recognized consensus standards, as needed, in the Federal Register once a year, or more often if necessary. Beginning with Recognition List 033, FDA no longer announces minor revisions to the list of recognized consensus standards such as technical contact person, devices affected, processes affected, Code of Federal Regulations citations, and product codes.

V. Recommendation of Standards for Recognition by FDA

Any person may recommend consensus standards as candidates for recognition under section 514 of the FD&C Act by submitting such recommendations, with reasons for the recommendation, to standards@cdrh.fda.gov. To be properly considered, such recommendations should contain, at a minimum, the following information: (1) Title of the standard, (2) any reference number and date, (3) name and address of the national or international standards development organization, (4) a proposed list of devices for which a declaration of conformity to this standard should routinely apply, and (5) a brief identification of the testing or performance

11

or other characteristics of the device(s) that would be addressed by a declaration of conformity.

VI. Electronic Access

You may obtain a copy of 'Guidance on the Recognition and Use of Consensus

Standards" by using the Internet. The Center for Devices and Radiological Health (CDRH)

maintains a site on the Internet for easy access to information including text, graphics, and files

that you may download to a personal computer with access to the Internet. Updated on a regular

basis, the CDRH home page, http://www.fda.gov/MedicalDevices, includes a link to standards-

related documents including the guidance and the current list of recognized standards. After

publication in the Federal Register, this notice announcing "Modification to the List of

Recognized Standards, Recognition List Number: 044" will be available at

http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards/ucm123792.htm.

You may access "Guidance on the Recognition and Use of Consensus Standards," and the

searchable database for "FDA Recognized Consensus Standards" at

http://www.fda.gov/MedicalDevices/DeviceRegulationandGuidance/Standards.

Dated: July 19, 2016.

Leslie Kux,

Associate Commissioner for Policy.

[FR Doc. 2016-17570 Filed: 7/25/2016 8:45 am; Publication Date: 7/26/2016]